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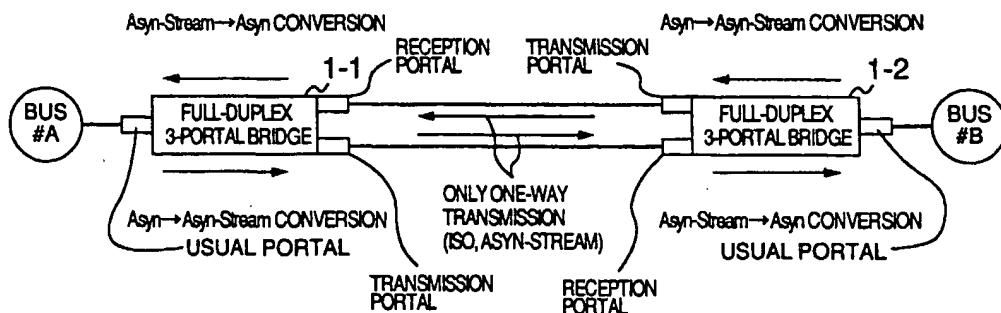
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(54) Bridge for IEEE 1394 bus network

(57) The two-way transmissions are performed between a first bus (#A) and a usual portal of a first full-duplex 3-portal bridge (1-1) and between a second bus (#B) and a usual portal of a second full-duplex 3-portal bridge (1-2), respectively. The one-way transmission of an isochronous packet and an asynchronous stream packet is performed between transmission and reception

portals of the first full-duplex 3-portal bridge (1-1) and reception and transmission portals of the second full-duplex 3-portal bridge (1-2). The first full-duplex 3-portal bridge (1-1) and the second full-duplex 3-portal bridge (1-2) perform a conversion between the asynchronous stream packet and an asynchronous packet if necessary.

FIG. 4A



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.?)
X	WO 98 11726 A (SONY TRANS COM INC) 19 March 1998 (1998-03-19) * page 12, line 11 - line 21 * * page 14, line 1 - line 9; figure 2 *	1,2,5,9, 11,17,18	H04L12/46 H04L12/64
A	EP 0 836 299 A (SUN MICROSYSTEMS INC) 15 April 1998 (1998-04-15) * figure 1 *	1-22	
TECHNICAL FIELDS SEARCHED (Int.Cl.)			
H04L			
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	10 September 2002	Gregori, S	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
<small>EPO FORM 1505.03 & 2 (P04C01)</small>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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10-09-2002

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9811726	A	19-03-1998	US	6014381 A		11-01-2000
			AU	4338397 A		02-04-1998
			WO	9811726 A1		19-03-1998
EP 0836299	A	15-04-1998	US	6065052 A		16-05-2000
			EP	0836299 A2		15-04-1998
			JP	10164140 A		19-06-1998
			US	6233615 B1		15-05-2001
			US	2002059442 A1		16-05-2002

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